

Oussema Ben Ameer

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ABOUT ME

Second-year Software Engineering student at ENISO with hands-on experience in Machine Learning, MLOps, and full-stack development. Currently building document intelligence and computer vision systems at Core Techs Solutions.

WORK EXPERIENCE

- **Core Techs Solutions** Sousse, Tunisia
Part-Time Software Engineer September 2025 - Present
 - Built an end-to-end document extraction pipeline combining **PaddleOCR**, **LayoutLM**, and **Qwen-VL** with a **RAG** system for intelligent document querying.
 - Engineered a **C++** inference layer with **Java FFM** bindings to run PaddleOCR and LayoutLM models natively in the JVM, eliminating Python dependency overhead.
 - Built and refined deep learning models in **PyTorch** for production computer vision applications.
 - Shipped features across mobile (**Flutter**) and backend (**Spring Boot**) services for company products.
- **Core Techs Solutions** Sousse, Tunisia
Software Engineering Intern June 2025 - July 2025
 - Designed and trained a **computer vision model** to assess physical document condition — detecting folds, tears, and degradation for automated quality control.
 - Built data preprocessing and feature extraction pipelines in **PyTorch**, improving model accuracy over baseline.

EDUCATION

- **École Nationale d'Ingénieurs de Sousse - ENISO** Sousse, Tunisia
Master's-level degree in Software Engineering September 2024 - Present
- **Monastir Preparatory Engineering Institute** Monastir, Tunisia
Pre-Engineering Studies : Maths and Physics September 2022 - June 2024
 - Intensive and highly selective two-year scientific program, serving as a preparatory course for the national entrance exams to engineering schools.
 - **Rank:** 420/1800 in the national entrance exam for engineering schools.
 - **Courses:** Analysis and Calculus, Algebra, Physics, Chemistry, Computer Science, Engineering Science and Technology, French, English

PROJECTS

- **AI-Powered Writing Assistant Platform:** (January 2025)
 - Developed a full-stack application enabling users to draft emails and meeting summaries with bullet points, which AI elaborates into professional content.
 - Built the backend with **Spring Boot** and frontend with **React**, while creating a cross-platform mobile app using **Flutter**.
 - Fine-tuned an LLM on business communication data, improving tone alignment and contextual accuracy for email and meeting summary generation.
- **Predictive Nutrient Availability Analysis and Sustainable Agriculture:** (June 2024)
 - Developed machine learning models to predict essential soil nutrients for optimizing maize crop yields in African farms.
 - Applied time-series analysis on environmental factors and satellite data (Sentinel and MODIS) to assess their impact on soil nutrient variability.
- **Predictive Analysis for Play Store Market:** (December 2024)
 - Trained deep learning models with **Keras** on a 3M-row dataset to predict app install counts, using **pandas**, **NumPy**, and **Matplotlib** for analysis.
 - Prototyped an AI-driven market research tool providing actionable insights on app performance for developers.

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Java, JavaScript/TypeScript
- **Machine Learning:** PyTorch, Scikit-Learn, PaddleOCR, LayoutLM, Hugging Face Transformers
- **Data & Visualization:** pandas, NumPy, Matplotlib, Seaborn, Statsmodels
- **Web & Mobile Development:** Spring Boot, React, Flutter
- **MLOps & Tools:** Docker, Kubernetes, MLflow, Git/GitHub, LangChain
- **Soft Skills:** Leadership, Stress Management, Writing, Public Speaking, Time Management
- **Languages:** Arabic (Native), English (C1), French (B2), German (B1)

VOLUNTEER EXPERIENCE

- **AI Lead at Electronica Club - ENISo:** September 2025 – Present
 - Led both theoretical and practical workshops covering the fundamentals of Artificial Intelligence and Machine Learning.
 - Led and supported projects relying heavily on Machine Learning models and embedded software integration.
- **Member of ENISo Junior Enterprise - JEENISo:** September 2024 – Present
 - Led marketing initiatives including content creation and visual identity design, while contributing to client prospecting and outreach efforts for business development.
- **Moderator – School Partnership Program:** May 2025
 - Moderated the launch event of ENISo's new Automotive Software Engineering program, held in the presence of representatives from GIZ, Deggendorf Institute of Technology (DIT), Dräxlmaier, and the German Embassy in Tunis.
 - Led discussions between industry leaders, professors, and school leadership to highlight the program's vision of industry-aligned education and student career development in the automotive tech sector.

CERTIFICATES

Building RAG Agents with LLMs - NVIDIA
Machine Learning Specialization - DeepLearning.AI, Stanford University
Deep Learning - DeepLearning.AI
Hyperparameter Tuning - DeepLearning.AI
Natural Language Processing - DeepLearning.AI

HOBBIES AND INTERESTS

Gaming: Participated in and won multiple competitions online and on-site